

## CLAIMS

1. A noncontact information medium comprising:  
a coil formed by a conductor;  
a capacitor that forms, together with the coil, a  
5 resonance circuit; and  
a control circuit that controls information  
transmitted and received to and from a reader-writer,  
wherein  
the coil has at least a part of the conductor cut off.  
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2. The noncontact information medium according to claim 1,  
wherein  
the coil has an inductance for making a resonance  
frequency of the resonance circuit higher than a frequency  
15 of an electromagnetic wave transmitted from the reader-  
writer when the noncontact information medium is arranged  
solely.
3. The noncontact information medium according to claim 1,  
20 wherein  
the coil generates an inductance for making a  
resonance frequency of the resonance circuit equal to a  
frequency of an electromagnetic wave transmitted from the  
reader-writer when a plurality of the noncontact  
25 information media are arranged to be close to the reader-  
writer.
4. The noncontact information medium according to claim 1,  
further comprising:  
30 an auxiliary coil substantially equal in inductance to  
the coil, wherein  
the coil generates an inductance for making a  
resonance frequency of the resonance circuit equal to a

frequency of an electromagnetic wave transmitted from the reader-writer when a plurality of the auxiliary coils are arranged to be close to the reader-writer.

- 5 5. A communication system that holds a radio communication using electromagnetic induction, the communication system comprising:

a plurality of noncontact information media each including:

- 10 a coil formed by a conductor at least a part of which is cut off;

a capacitor that forms, together with the coil, a resonance circuit; and

- 15 a control circuit that controls information transmitted and received through the resonance circuit; and

a reader-writer that supplies an energy to the noncontact information media, that transmits data to the noncontact information media, and that receives the data transmitted from the noncontact information media.

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6. A communication system that holds a radio communication using electromagnetic induction, the communication system comprising:

a noncontact information medium including:

- 25 a coil formed by a conductor at least a part of which is cut off;

a capacitor that forms, together with the coil, a resonance circuit; and

- 30 a control circuit that controls information transmitted and received through the resonance circuit;

an auxiliary coil substantially equal in inductance to the coil of the noncontact information medium; and

a reader-writer that supplies an energy to the

noncontact information medium, that transmits data to the noncontact information medium, and that receives the data transmitted from the noncontact information medium.